## **CLAIMS**

- 1. (currently amended) A method of forming a layer over a semiconductor substrate comprising: providing a semiconductor substrate;
  - forming a first dielectric layer overlying said substrate, said first dielectric layer comprising a hydrophobic surface;

converting said hydrophobic surface to a hydrophilic surface;

scrubbing said hydrophilic surface; and

forming a second dielectric layer overlying said first dielectric layer;

wherein converting said hydrophobic surface to said hydrophilic surface is by an oxygen plasma.

- 2. (original) The method of claim 1, wherein said first dielectric layer comprises silicon, carbon and nitrogen.
- 3. (canceled)
- 4. (original) The method of claim 1, wherein said second dielectric layer comprises silicon, carbon, oxygen and hydrogen.
- 5. (canceled)
- 6. (canceled).
- 7. (currently amended) The method of claim 6 1, wherein the scrubbing said hydrophilic surface is with a water-based clean.
- 8. (original) The method of claim 7, wherein said water-based clean comprises arnmonium hydroxide.

- 9. (currently amended) The method of claim 5 8, wherein said first dielectric comprises silicon, nitrogen, and carbon.
- 10. (canceled)
- 11. (currently amended) The method of claim 10 9, wherein said water-based clean comprises ammonium hydroxide.
- 12. (currently amended) The method of claim 5 11, wherein the step of forming said first dielectric layer and the step of converting said hydrophobic surface to a hydrophilic surface, are performed in situ.
- 13. (original) The method of claim 1, wherein forming said first dielectric layer and converting said hydrophobic surface to a hydrophilic surface are performed in situ.
- 14. (original) The method of claim 1, wherein forming the first dielectric is plasma deposited and converting is by plasma.
- 15. (currently amended) A method of forming a layer over a semiconductor substrate comprising:

providing a semiconductor substrate;

forming a first dielectric layer overlying said substrate;

treating said first dielectric layer with an oxygen plasma;

cleaning said first dielectric layer with a water-based solution; and

forming a second dielectric layer overlying said cleaned first dielectric layer;

wherein the treating said first dielectric layer with said oxygen plasma is such that a

hydrophobic surface of said first dielectric layer is converted to a hydrophilic

surface.

16. canceled

- 17. (currently amended) The method of claim 16 15, wherein the step of cleaning said first dielectric layer comprises scrubbing said first dielectric layer with said water-based solution.
- 18. (original) The method of claim 17, wherein said water-based solution comprises ammonium hydroxide.
- 19. (original) The method of claim 18, wherein said first dielectric layer comprises silicon, carbon and nitrogen.
- 20. (original) The method of claim 15, wherein said first dielectric layer comprises silicon, carbon and nitrogen.
- 21. (original) The method of claim 20, wherein the step of forming said first dielectric layer occurs in a first chamber.
- 22. (original) The method of claim 21, wherein the step of treating said first dielectric layer with said oxygen plasma occurs in said first chamber.
- 23. (currently amended) A method for forming a semiconductor structure:

  providing a semiconductor substrate;

  forming a first dielectric layer comprising silicon, carbon and nitrogen overlying said substrate;

  treating said first dielectric layer with an oxygen plasma;

  scrubbing said first dielectric layer; and

  forming a second dielectric layer overlying said first dielectric layer;

  wherein said first dielectric layer has a hydrophobic surface; and

  wherein said step of treating said first dielectric layer converts substantially all of said

24-25. (canceled).

hydrophobic surface to a hydrophilic surface.

- 26. (original) The method of claim 23, wherein the step of scrubbing comprises scrubbing with a water-based cleaning solution.
- 27. (original) The method of claim 26, wherein said water-based cleaning solution comprises ammonium hydroxide.
- 28. (original) The method of claim 27, wherein the step of scrubbing comprises mechanical cleaning and chemical cleaning.
- 29. (original) The method of claim 23, wherein forming the first dielectric layer comprises: forming the first dielectric layer of silicon of silicon, carbon, and nitrogen; wherein forming the first dielectric and treating the first dielectric layer are performed in situ.